NC/QC/PD/2018-19/WF-CB3

Date: 05-05-2018

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Development Of Water Fountain Civil Works At Proposed Mallasandra Park in Mallasandra Ward No.13 Shettyhalli Sub Division.}
Ref.: Material testing/QC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Technical Manager, KRIDL.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{25}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	28-04-18	05-05-18	07	22500	465	20.67	**20.44**
	002	"	"	"	"	445	19.78	
	003	"	"	"	"	470	20.89	

Asst. Executive Engineer
Project Sub Division-I
Dasarahalli Zone,
Bruhat Bengaluru Mahanagara Palike

For Newzen Consultants Bangalore
Proprietor

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NC/QC/PD/2018-19/WF-CB4

Date: 07-05-2018

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Development Of Water Fountain Civil Works At Proposed Mallasandra Park in Mallasandra Ward No.13 Shettyhalli Sub Division.}

Ref.: Material testing/QC/18-19,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Technical Manager, KRIDL.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{25}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	30-04-18	07-05-18	07	22500	455	20.22	**20.59**
	002	"	"	"	"	475	21.11	
	003	"	"	"	"	460	20.44	

For Newzen Consultants Bangalore
Proprietor

Asst. Executive Engineer
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NC/QC/PD/2018-19/WF-CB2a

Date: 24-05-2018

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Development Of Water Fountain Civil Works At Proposed Mallasandra Park in Mallasandra Ward No.13 Shettyhalli Sub Division.}
Ref.: Material testing/QC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Technical Manager, KRIDL.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{25}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	26-04-18	24-05-18	28	22500	615	27.33	**27.63**
	002	"	"	"	"	630	28.00	
	003	"	"	"	"	620	27.56	

Asst. Executive Engineer
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For Newzen Consultants Bangalore
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NC/QC/PD/2018-19/WF-CB3a

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Date: 26-05-2018

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
(Project*: Development Of Water Fountain Civil Works At Proposed Mallasandra Park in Mallasandra Ward No.13 Shettyhalli Sub Division.)

Ref.: Material testing/QC/18-19,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Technical Manager, KRIDL.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{25}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	28-04-18	26-05-18	28	22500	630	28.00	27.26
	002	"	"	"	"	610	27.11	
	003	"	"	"	"	600	26.67	

Asst. Executive Engineer
Project Division-I
Dasarahalli Zone,
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For Newzen Consultants Bangalore
Proprietor

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NC/QC/PD/2018-19/WF-CB4a

Date: 28-05-2018

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Development Of Water Fountain Civil Works At Proposed Mallasandra Park in Mallasandra Ward No.13 Shettyhalli Sub Division.}
Ref.: Material testing/QC/18-19.
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Technical Manager, KRIDL.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{25}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	30-04-18	28-05-18	28	22500	615	27.33	27.26
	002	"	"	"	"	600	26.67	
	003	"	"	"	"	625	27.78	

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Asst. Executive Engineer
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For Newzen Consultants Bangalore
Proprietor

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NC/QC/PD/2018-19/WF-CB5 Date: 14-05-2018

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Development Of Water Fountain Civil Works At Proposed Mallasandra Park in Mallasandra Ward No.13 Shettyhalli Sub Division.}

Ref.: Material testing/QC/18-19,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Technical Manager, KRIDL.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	07-05-18	14-05-18	07	22500	355	15.78	16.15
	002	"	"	"	"	370	16.44	
	003	"	"	"	"	365	16.22	

For Newzen Consultants Bangalore

Proprietor

Asst. Executive Engineer
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Bruhat Bengaluru Mahanagara Palike

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NC/QC/PD/2018-19/WF-CB5a

Date: 04-06-2018

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Development Of Water Fountain Civil Works At Proposed Mallasandra Park in Mallasandra Ward No.13 Shettyhalli Sub Division.}
Ref.: Material testing/QC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Technical Manager, KRIDL.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	07-05-18	04-06-18	28	22500	515	22.89	**22.81**
	002	"	"	"	"	505	22.44	
	003	"	"	"	"	520	23.11	

For Newzen Consultants Bangalore
Proprietor

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NC/QC/PD/2018-19/WF-G1 Date: 22-05-2018

TEST REPORT ON GRANULAR SUBBASE MIX
(GRADATION TEST)

Sub: To conduct tests on GSB (with close graded materials, Grade-II) mix.
{Project*: Development Of Water Fountain Civil Works At Proposed Mallasandra Park in Mallasandra Ward No.13 Shettyhalli Sub Division.}
Ref.: Material testing/QC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Technical Manager, KRIDL.

TEST RESULTS

1. **Gradation Test:**
TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	**100.00**	100
26.50	**98.25**	70-100
9.50	**74.10**	50-80
4.75	**56.85**	40-65
2.36	**40.90**	30-50
0.425	**13.05**	10-15
0.075	**4.35**	<5

Asst. Executive Engineer
Project Sub Division-I
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For Newzen Consultants Bangalore
Proprietor

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Date: 22-05-2018

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Water absorption, %	0.37 %	Not more than 2.0 %
2.	Liquid Limit, %	19.10	Not more than 25.0 %
3.	Plasticity Index, %	NP	Not more than 6.0 %
4.	Moisture Content, %	6.95	----------
5.	Aggregate Impact Value, %	28.30	Not more than 40.00 %

For Newzen Consultants Bangalore

Proprietor

Asst. Executive Engineer
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NC/QC/PD/2018-19/WF-C4

Date: 28-05-2018

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Development Of Water Fountain Civil Works At Proposed Mallasandra Park in Mallasandra Ward No.13 Shettyhalli Sub Division.}
Ref.: Material testing/QC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Technical Manager, KRIDL.

PHYSICAL TESTS ON CEMENT

Brand : ZUARI
Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**196 min**	Shall not be less than 30 min
2	Final setting time	**284 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.03 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**1.95 mm**	Shall not be more than 10 mm
5	Compressive strength e) 3 days (average of three results) f) 7 days (average of three results)	**28.31 N/Sq mm** **39.46 N/Sq mm**	Shall not be less than 27 N/Sqmm Shall not be less than 37N/Sqmm

Asst. Executive Engineer
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Dasarahalli Zone,
Bruhat Bengaluru Mahanagara Palike

For Newzen Consultants Bangalore
Proprietor

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NC/QC/PD/2018-19/WF-PCC3

Date: 28-05-2018

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Development Of Water Fountain Civil Works At Proposed Mallasandra Park in Mallasandra Ward No.13 Shettyhalli Sub Division.}

Ref.: Material testing/QC/18-19,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Technical Manager, KRIDL.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	59.65	0 -20	30- 70
10mm	20.95	0 -5	10- 35
4.75mm	4.30	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	96.80	90-100	90-100	90-100	The Sample Conforms to Grading Zone-II
02.36	82.05	60-95	75-100	85-100	
01.18	74.95	30-70	55-90	75-100	
600.mic	38.10	15-34	35-59	60-79	
300.mic	13.40	5-20	8-30	12-40	
150.mic	7.55	0-10	0-10	0-10	

Asst. Executive Engineer
Project Sub Division-I
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NC/QC/PD/2018-19/WF-C5

Date: 31-05-2018

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Development Of Water Fountain Civil Works At Proposed Mallasandra Park in Mallasandra Ward No.13 Shettyhalli Sub Division.}
Ref.: Material testing/QC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Technical Manager, KRIDL.

PHYSICAL TESTS ON CEMENT

Brand : ZUARI
Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	165 min	Shall not be less than 30 min
2	Final setting time	282 min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	1.92 %	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	2.09 mm	Shall not be more than 10 mm
5	Compressive strength g) 3 days (average of three results) h) 7 days (average of three results)	28.21 N/Sq mm 39.94 N/Sq mm	Shall not be less than 27 N/Sqmm Shall not be less than 37N/Sqmm

Asst. Executive Engineer
Project Sub Division-I
Dasarahalli Zone,
Bruhat Bengaluru Mahanagara Palike

For Newzen Consultants Bangalore

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